

a conveyor for conveying objects to be sanded in a feed direction toward the platen.

17. The sander of claim 16, where the second motion is a circular motion.

18. The sander of claim 17, where the circular motion is a circular translational orbit.

19. The sander of claim 17, where the circular motion is a circular rotation.

20. The sander of claim 16, where the abrasive is an abrasive sheet.

21. The sander of claim 16, where the abrasive is secured to the platen.

22. The sander of claim 21, where the abrasive is secured to the platen by an adhesive.

23. The sander of claim 21, where the abrasive is secured to the platen by one or more mechanical clips.

24. The sander of claim 16, where the drive mechanism includes a bearing mechanism configured to permit rotation of the platen.

25. The sander of claim 16, further comprising one or more additional platens, each platen superimposing an orbital motion on a second motion,.

26. The sander of claim 25, each platen superimposing an orbital motion on a rotational motion.

27. A sander, comprising:

a frame;

a plurality of platens; each platen having an abrasive sheet secured to the platen, and each platen being connected to the frame by a drive mechanism that moves the platen

in an orbital motion superimposed on a rotational motion; and

a conveyor having a feed direction for conveying objects to be sanded toward the platens.

28. The sander of claim 27, where the platens are arranged side-by-side in at least one row above the conveyor.

29. The sander of claim 28, where the platens are arranged in a spaced-apart relationship with the conveyor that extends substantially across the conveyor generally crosswise to the feed direction.

30. The sander of claim 27, where each platen is connected to a drive shaft that is configured to impart an orbital motion to the platen.

31. The sander of claim 30, where the rotational motion is the rotation of each platen relative to the respective drive shaft.

32. A sander, comprising:

a frame;

at least one rotatable platen, connected to the frame by a single shaft assembly configured to impart an orbital motion superimposed on a rotational motion;

an abrasive sheet secured to the platen;

a conveyor for conveying objects to be sanded toward the platen.

33. The sander of claim 32, further comprising at least one additional rotatable platen connected to the frame by a shaft assembly configured to impart an orbital motion superimposed on a rotational motion.

D/

34. A sander, comprising:

- a frame;
- a first platen;
- an abrasive sheet secured to the platen;
- a first drive shaft interconnecting the platen and the frame, configured to move the platen in an orbital motion;
- a bearing mechanism interconnecting the platen and the first drive shaft, configured to permit the platen to move in a circular motion relative to the first drive shaft; and
- a conveyor for conveying objects to be sanded in a feed direction toward the platen.

35. The sander of claim 34, where the circular motion is a rotational motion.

36. The sander of claim 35, further comprising at least one additional platen, adjacent to the first platen, each platen having a drive shaft and a bearing mechanism configured to superimpose an orbital motion and a rotational motion on the platen.

37. The sander of claim 36, where the platens are arranged side-by-side above the conveyor.--